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FEB 12 2004

TECHNOLOGY CENTER R3700

CLEAN VERSION OF SUBSTITUTE SPECIFICATION WITH AMENDMENTS

TITLE OF THE INVENTION

Method And Device To Make Holes For Components Of Wings For Doors Or Windows

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CROSS-REFERENCE TO RELATED APPLICATIONS

Easier
D/H
5-13-04

[0001] This Non-provisional Patent Application is based on Provisional Patent Application No. 60/249,983, filed November 20, 2000, the disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

[0002] The invention concerns a device to make holes in the uprights of a frame of a wing for doors or windows of the type with the selective regulation of the light through strips, or blinds, oscillating around at least one axis.

[0003] The invention also concerns a method to calculate, in a substantially automatic fashion, according to the height of the wing gap ad the standardized height of each single blind, the number of blinds which can be applied to the wing and the interaxis, or pitch, between the holes by which the blinds are attached to said frame.

[0004] The device is substantially composed of a hole-making assembly, a programmable command unit which governs said hole-making assembly and a control panel to set the parameters and verify that operations are correct.

[0005] The state of the art includes wings for doors or windows comprising a frame consisting of one or more lower cross-pieces, one or more upper cross-pieces and substantially vertical uprights orthogonal to said upper and lower cross-pieces, on which a plurality of blinds are mounted, parallel and contiguous, and are able to be moved to allow more or less light to pass.

[0006] The blinds pivot oscillating with respect to said uprights and can assume a first position wherein they totally prevent the light from passing, a second position wherein they allow a maximum amount of light to pass, and a plurality of intermediate positions between said first and second position.

[0007] It is also known that making holes to attach the blinds to the frame is usually done with a constant pitch and has to take into account the size of the door or window, and hence the gap defined by the frame of the wing, and the size, particularly the height, of the blinds which will be applied.